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APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/806,789	03/22/2004	Hai-Feng Wang	MSI-606USC1

22801
 LEE & HAYES PLLC
 421 W RIVERSIDE AVENUE SUITE 500
 SPOKANE, WA 99201



CONFIRMATION NO. 2367
 FORMALITIES LETTER
 OC000000012902050
 OC000000012902050

Date Mailed: 06/08/2004

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

*Filing Date Granted***Items Required To Avoid Abandonment:**

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is missing.
A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(e) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- A substitute specification in compliance with 37 CFR 1.52, 1.121(b)(3), and 1.125, is required. The specification, claims, or abstract page(s) submitted is not acceptable and cannot be scanned or properly stored because:
 - The specification, claims, or abstract page(s) 18 contain hand lettering.

SUMMARY OF FEES DUE:

Total additional fee(s) required for this application is **\$130** for a Large Entity

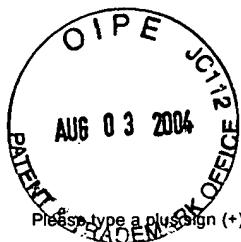
- **\$130** Late oath or declaration Surcharge.

Replies should be mailed to: Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

*A copy of this notice **MUST** be returned with the reply.*

CH
Customer Service Center
Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE



Please type a plus sign (+) inside this box →

PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM

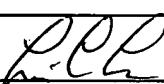
(to be used for all correspondence after initial filing)

		Application Number	10/806,789
		Filing Date	Mar 22, 2004
		First Named Inventor	Wang
		Group Art Unit	
		Examiner Name	
Total Number of Pages in This Submission		Attorney Docket Number	MS1-606USC1

ENCLOSURES (check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input checked="" type="checkbox"/> Response to Missing Parts/ Incomplete Application <input checked="" type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) Sheets <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below): Return postcard
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Lewis C. Lee, Reg. No. 34,656	
Signature		
Date	Aug. 3, 2004	

CERTIFICATE OF EXPRESS MAILING

I hereby certify that the items listed above as enclosed are being deposited with the U.S. Postal Service as Express Mail, in an envelope addressed to The Commissioner of Patents, Alexandria, VA 22313 on the below-indicated date. The Express Mail No. has also been marked on the listed items.
Express Mail No. **EV466810185**

Typed or printed name	Carly Taylor	Date
Signature		8/3/04

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. The time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.

EV466810185

PTO/SB/17 (10-03)

Approved for use through 07/31/2006. OMB 0651-0032
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AUG 03 2004

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**FEET TRANSMITTAL
for FY 2004**

Effective 10/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$ 0.00)**Complete if Known**

Application Number	10/806,789
Filing Date	Mar 22, 2004
First Named Inventor	Wang
Examiner Name	
Art Unit	
Attorney Docket No.	MS1-606USC1

METHOD OF PAYMENT (check all that apply)
 Check Credit card Money Order Other None
 Deposit Account:

Deposit Account Number	12-0769
Deposit Account Name	Lee & Hayes, PLLC

The Director is authorized to: (check all that apply)

 Charge fee(s) indicated below Credit any overpayments
 Charge any additional fee(s) or any underpayment of fee(s)
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.
FEET CALCULATION**1. BASIC FILING FEE**

Large Entity	Small Entity	Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee			
1002 340	2002 170	Design filing fee			
1003 530	2003 265	Plant filing fee			
1004 770	2004 385	Reissue filing fee			
1005 160	2005 80	Provisional filing fee			
SUBTOTAL (1)		(\$ 0.00)			

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid
			-20** =	X	=
			- 3** =	X	=

Large Entity	Small Entity	Fee Description
Fee Code (\$)	Fee Code (\$)	
1202 18	2202 9	Claims in excess of 20
1201 86	2201 43	Independent claims in excess of 3
1203 290	2203 145	Multiple dependent claim, if not paid
1204 86	2204 43	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent
SUBTOTAL (2)		(\$ 0.00)

**or number previously paid, if greater; For Reissues, see above

3. ADDITIONAL FEES

Large Entity	Small Entity	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 420	2252 210	Extension for reply within second month	
1253 950	2253 475	Extension for reply within third month	
1254 1,480	2254 740	Extension for reply within fourth month	
1255 2,010	2255 1,005	Extension for reply within fifth month	
1401 330	2401 165	Notice of Appeal	
1402 330	2402 165	Filing a brief in support of an appeal	
1403 290	2403 145	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,330	2453 665	Petition to revive - unintentional	
1501 1,330	2501 665	Utility issue fee (or reissue)	
1502 480	2502 240	Design issue fee	
1503 640	2503 320	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))	
1801 770	2801 385	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	
Other fee (specify) _____			

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 0.00)**SUBMITTED BY**

(Complete (if applicable))

Name (Print/Type)	Lewis C. Lee	Registration No. (Attorney/Agent)	34,656	Telephone	(509) 324-9256
Signature	<i>L. C. Lee</i>			Date	Aug 2, 2004

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



EV466810185

1 IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

2 Application Serial No. 10/806,789
3 Filing Date Mar 22, 2004
4 Inventorship Wang et al.
5 Applicant Microsoft Corporation
6 Attorney's Docket No. MS1-606USC1
7 Title: Search Engine with Natural Language-Based Robust Parsing of User Query
8 and Relevance Feedback Learning

9 **RESPONSE TO NOTICE TO FILE MISSING PARTS**

10 To: Mail Stop Missing Parts
11 Commissioner for Patents
12 PO Box 1450
13 Alexandria, VA 22313-1450
14
15 From: Lewis C. Lee (Tel. 509-324-9256; Fax 509-323-8979)
16 Lee & Hayes, PLLC
17 421 W. Riverside Avenue, Suite 500
18 Spokane, WA 99201

19 In response to the Notice to File Missing Parts for the above-mentioned application, a
20 clean copy of the requested page 18, from the originally filed specification, is enclosed.
21 The requested correction has been made and the application is now complete.

22 The Notice also stated that an executed declaration was missing from the initial filing of
23 this application. The executed declarations were in fact filed with the application. A
24 copy of the stamped receipt postcard from the PTO indicating receipt of the declarations
25 is enclosed. Courtesy copies of the previously filed declarations are also enclosed.

Respectfully Submitted,

21 By:

22 Lewis C. Lee
23 Reg. No. 34,656
24 (509) 324-9256
25

Dated: Aug. 2, 2004

1 parsing to the phrase “*dismounted a horse*”, and the bold path 504 represents
2 “*immediately coming down*”. This figure also shows seven possible “words”,
3 some of which (e.g., 上下) might be disputable on whether they should be
4 considered “words.”

5 To accommodate Chinese input, the robust parser can accept two kinds of
6 input: Lattice and N-best. The lattice input includes almost all possible
7 segmentations. However, as there may be too much ambiguity, the parsing
8 process can become very slow. An alternative choice is to use the N-best input.

9 With reference again to Fig. 4, after segmentation, the segmented sentence
10 is passed a natural language parser 410 and a keyword module 412. The parser
11 410 attempts to parse the segmented sentence according to a set of rules found in a
12 rule database 414. If a sentence parses successfully, the parsing module 142
13 outputs a parse tree. If parsing is unsuccessful, the keyword unit 412 uses a word
14 database 416 to extract and output keywords from the segmented sentence. As
15 shown in Fig. 2, the parse tree and keywords are passed to the FAQ matcher 144
16 and the keywords are passed to the keyword-based component 146. Accordingly,
17 the architecture 140 allows templates to be matched regardless of the type of
18 output, whether parse trees or keywords.

20 Exemplary Parsing Methodology

21 One particular implementation of a robust parser is based on a spoken
22 language system known as “LEAP”, which stands for Language Enabled
23 Applications. LEAP is technology being developed in Microsoft Research that
24 aims at spoken language understanding. For a more detailed discussion of LEAP,
25 the reader is directed to an article by Y. Wang, entitled “A robust parser for

MS1-606USC1

Microsoft Corporation

3/22/2004

The stamp of the U.S. Patent and Trademark Office acknowledges receipt of the documents enumerated below, relating to the following application for letters patent:

Title: "Search Engine with Natural Language-Based Robust Parsing of User Query and Relevance Feedback Learning"
Inventorship: Wang et al.

1. Patent Application Transmittal
2. Fee Transmittal, in duplicate
3. Copy of Executed Declaration (6 pages)
4. Copy of Parent Patent Application (title page plus pages 1-47, including claims 1-71 & Abstract)
5. 7 sheets of formal drawings (Eggs 1-9)
6. Preliminary Amendment (pages 1-15, Claims 72-82)
7. PTO Return Postcard Receipt

EV436703024US

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